

ACRONYMS, ABBREVIATIONS, AND CONVERSION CHARTS

ACGIH	American Conference of Governmental Industrial Hygienists
ACI	American Concrete Institute
ADC	Air Diffusion Council
ADL	Additional Dynamic Loads
AEC	U.S. Atomic Energy Commission (predecessor of ERDA, DOE, and NRC)
AFI	Air Filter Institute
AGS	American Glovebox Society
AgX	silver-exchanged zeolite
AHJ	Authority Having Jurisdiction
AIISI	American Iron and Steel Institute
AISC	American Institute of Steel Construction
ALAP	as low as practicable (obsolete term for ALARA)
ALARA	as low as reasonably achievable
AMCA	Air Moving and Conditioning Association
AMD	aerodynamic mean diameter (of particles)
ANS	American Nuclear Society
ANSI	American National Standards Institute
APA	American Plywood Association
ASHRAE	American Society of Heating, Refrigerating, and Air Conditioning Engineers
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
AWS	American Welding Society
BET	Brunauer, Emmett, and Teller (test for surface area of adsorbents)
BWR	boiling water reactor
CAM	continuous air monitors
CBR	chemical, biological, and radiological (filter)
CFD	continuous fire detector
CFR	Code of Federal Regulations
CG	concentration guide
CH ₃ I	Methyl iodide
CONAGT	Committee on Nuclear Air and Gas Treatment (a subcommittee of ASME)
CRSI	Concrete Reinforced Steel Institute
CVS	Confinement Ventilation System
CWS	U.S. Army Chemical Warfare Service Laboratories
DAC	derived air concentration
DBA	design basis accident

DBE	design basis earthquake
DBS	deep-bed sand (filter)
DBGF	deep-bed glass fiber (filter)
DF	decontamination factor
DoD	Department of Defense
DOE	U.S. Department of Energy
DOP	dioctyl phthalate
DP	differential pressure
DNFSB	Defense Nuclear Facilities Safety Board
DPD	design pressure differential
DSA	Documented Safety Analysis (replaces the term SAR)
ECCS	Emergency Core Cooling System
EL	external loads
ERDA	Energy Research and Development Administration
ES	equipment specification
ESF	engineered safety feature
ESP	electrostatic Precipitator (prefilter)
FHA	Fire Hazard Analysis
FML	Fluid Momentum Loads
FRP	fiber-reinforced plastic
FTF	Filter Test Facility
GFRP	Glass-Fiber-Reinforced Plastic
HEMF	high-efficiency metal filter
HEPA	high-efficiency particulate air (filter)
HEPA-Vac	HEPA Vacuum Cleaning Systems/Units
HF	hydrogen fluoride
HFATS	High Flow Alternative Test System
HVAC	heating, ventilating, and air conditioning
HWESF	Hanford Waste Encapsulation and Storage Facility
IAEA	International Atomic Energy Agency
IBC	International Building Code
IEEE	Institute of Electrical and Electronic Engineers
IEST	Institute of Environmental Sciences and Technology
IPF	Iodine Protection Factor
KI	potassium iodide
Kr	Krypton
LANL	Los Alamos National Laboratory
LCO	limiting conditions for operation
LEL	lower explosive limit
LER	Licensee Event Report
LMD	light scattering mean diameter

LMFBR	liquid-metal fast breeder reactor
LOCA	loss-of-coolant accident
LWR	light water reactor
MCE	maximum considered earthquake
MCFL	Maximum Credible Fire Loss
MERV	Minimum Efficiency Reporting Value
MMD	mass median diameter (of particles)
MPC	maximum permissible concentration
MPFL	maximum possible fire loss
MPPS	Most Penetrating Particle Size
NACE	National Association of Corrosion Engineers
NBS	National Bureau of Standards
NCIG	Nuclear Construction Issues Group
NDRC	National Defense Research Council
NEC	Nuclear Air Cleaning Conference
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Association
NIST	National Institutes of Science and Technology
NMD	number mean diameter (of particles)
NOPD	normal operating pressure differential
NPH	natural phenomena hazards
NQA	Nuclear Quality Assurance
NRC	U.S. Nuclear Regulatory Commission
NRL	U.S. Naval Research Laboratory
NRR	noise reduction rating
NSIC	Nuclear Safety Information Center
NSSS	Nuclear Steam Supply System
OBE	operating basis earthquake
ORFTF	Oak Ridge Filter Test Facility
ORNL	Oak Ridge National Laboratory
OSHA	Occupational Safety and Health Administration
PAO	Polyalphaolefin
PC	performance category
PEL	permissible exposure limit
PHFS	portable HEPA filtration system
PPE	personal protective equipment
PPH	Precipitation Hardening (grade of stainless steel)
PSHA	Probabilistic Seismic Hazard Analysis
PSL	Polystyrene Latex
PSS	Passive Safe Shutdown
PVC	polyvinyl chloride
PWR	pressurized water reactor

QA	quality assurance
QAS	quality assurance station
QC	quality control
QPL	qualified product list
RFETS	Rocky Flats Environmental Technology Site
RFFTF	Rocky Flats Filter Test Facility
RG	Regulatory Guide
RH	relative humidity
RPP	radiation protection program
RSCV	removable surface contamination value
RSIC	Reactor Shielding Information Center
RTP	Rapid-Transfer Port
RTV	room temperature vulcanizing
RWP	radiological work permit
SBMS	Standards Based Management Systems
SMACNA	Sheet Metal and Air Conditioning Contractors' National Association
SMP	Size of Maximum Penetration
SOP	standard operating procedure
SOPD	System Operating Pressure Differential
SRL	Savannah River Laboratory
SRP	Standard Review Plan
SRS	Savannah River Site
SSC	Structures, Systems, and Components
SSE	safe shutdown earthquake
SSPC	Steel Structures Painting Council (now the Society of Protective Coating)
TAPPI	Technical Association of the Pulp and Paper Industry
TEDA	triethylene diamine
TEFC	totally enclosed fan cooled
TLV	threshold limit value
TMI	Three Mile Island
TURF	Thorium-Uranium Recycle Facility
UL	Underwriters Laboratories, Inc.
ULPA	ultra low penetration air (filter)
VLSI	Very Large-Scale Integrated
VOC	volatile organic chemical
WESF	Waste Encapsulation and Storage Facility (Hanford B-Plant)
WWII	World War II
Xe	Xenon

UNITS OF MEASURE AND METRIC EQUIVALENTS USED IN THIS HANDBOOK

acfm	actual cubic feet per minute		
BTU	British thermal unit		
cfm	cubic feet per minute	x 0.000472 = m ³ /sec	cubic meters per second
Ci	curies		
dBA	decibel A-weighted		
fpm	feet per minute	x 0.00508 = m/sec	meters per second
ft	feet	x 0.3048 = m	meters
ft ²	square feet	x 0.09290 = m ²	square meters
ft ³	cubic feet	x 28.32 = L	Liter
		x 0.02832 = m ³	cubic meters
gpm	gallons per minute		
Hz	Hertz		
in.	inch	x 2.54 = cm	centimeters
in.wc	inches water column		
in.wg	inches water gauge	x 0.24836 = kPa	kilopascals
kPa	kilopascals		
mCi	millicuries		
mm	millimeter, 0.001 inch		
m ³ /hr	cubic meters per hour		
mmwg	millimeter water gauge		
m/s ²	meters per seconds squared		
pH	percent hydrogen (measure of acidity/alkalinity), power of the hydrogen ion		
ppm	parts per million		
psi	pounds per square inch		
psia	pounds per square inch absolute		
psig	pounds per square inch in gauge		
rem/hr	rems (roentgen equivalent man) per hour		
scfm	standard cubic feet per minute		
μCi	microcuries		
μg	micrograms		
μin	microinch		
μm	micrometer		
vpm	volume parts per million		